



FEED THE FUTURE
The U.S. Government's Global Hunger & Food Security Initiative



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Feed The Future India Triangular Training (FTF ITT)

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1. Report on International Webinar on Technology Backstopping for Agri-Extension: Experiences and activities of ICAR-National Dairy Research Institute (NDRI)

ICAR-National Dairy Research Institute (NDRI) at Karnal, Haryana is one of the premier Institutes in dairy sector, which has contributed a lot to the growth of dairy industry and played a crucial role in India's progress in milk production with its continuous research. As pioneering Institute, ICAR-NDRI has developed considerable expertise during the last nine decades in different areas of Dairy Production, Processing, Management and Human Resource Development.

In order to continue the linkages between the partner institutes of MANAGE and the partner countries, MANAGE announced the monthly International webinar series. In this monthly webinar series, the webinar in August was organised by National Dairy Research Institute (NDRI), Karnal in collaboration with MANAGE on 07.08.2021. A total of 52 participants from different countries i.e. India, Malawi, Kenya, Sudan, Tanzania, Cambodia, Myanmar, Nepal, Afghanistan, Uganda and Bangladesh attended this webinar.

The webinar started with a brief self-introduction by the participants. Welcome address was given by Dr. Mahantesh Shirur, Deputy Director (Agril. Extension), MANAGE. Dr. P. Chandra Shekara, Director General, MANAGE gave a brief introduction about the concept and idea behind monthly webinar series and importance of dairy in his key note address.



Later, Dr. M.S. Chauhan, Director (NDRI) gave a detailed presentation on the mandate, vision, mission, various programmes, schemes and technologies developed and carried out at NDRI. He has discussed about PhD scholar from NDRI, Mr. Ravi Prakash, who was awarded first prize in BRICS Young Innovator Prize for the development of field level cooling unit which can cool the milk while milking the animal. Further international collaborations of NDRI in research was focussed including DST-DAAD, Germany; Indo-New Zealand; Indo-UK; IBSA; University of Queensland, Australia; Michigan State University and International Livestock Research Institute, Kenya. In his presentation the Director, NDRI emphasised on the continuous efforts of the institute in generation and dissemination of technologies on milk production enhancement and



value addition has resulted in social, economic and environmental benefits to the nation. Information generated at the Institute and services offered have contributed to the growth of Dairy Industry on the whole and wellbeing of millions of milk producers and consumers of milk and milk products. Realizing the challenging need of globalized dairy trade, the Institute has been continuously working to develop its R&D and HRD programmes to better serve the nation in terms of food security, employment generation and poverty alleviation.

Later on he has discussed on the development and commercialisation of technologies (41%) by NDRI such as Paper Strip Assay for rapid detection of pesticide residues, Paper Strip based Assay for detection of antibiotic residues in milk, Shelf-stable, nutritionally rich smoothies using dairy and non-dairy ingredients, Misti Doi with fast acidifying high sugar tolerating lactic culture, A new strip based test for detection of neutralizer in milk, strip based test of hydrogen



peroxide in milk, etc. NDRI possessed an elite herd of 426 Sahiwal, 163 Tharparkar, 170 Gir, 557 Murrah buffaloes, 310 Karan Fries, 14 Karan Swiss, 360 goats, with the total milk production of 3000 kg per day. The Director also discussed on total patents filed were 52 and granted were 29.

Salient achievements of NDRI

- Produced World's First buffalo Cloned calf.
- Produced buffalo cloned calf "Garima-II" from embryonic stem cells.
- Produced India's first OPU-IVF Sahiwal calf.
- Produced OPU-IVF yak in a collaborative project with NRC-Yak, Dirang (Arunachal Pradesh)
- Produced reproducible cloned buffalo "Garima-II", delivered Mahima and Karishma.
- Developed Hand guided cloning technology in goat and buffalo and in buffalo produced many superior genetically cloned
- Buffalo calves (Garima, Shresth, Swarn, Purnima, Lalima, Rajat, Swarupa).
- Produced cloned calf "Deepasha" from endangered wild buffalo of Chhattisgarh.
- Produced 4 Embryonic Stem Cell lines in buffalo. These are the only lines available in the world, so far.
- Produced GFP expressed cloned transgenic Goat and Buffalo embryos.
- Developed IVF Technology in goat, buffalo, and recently in Yak. IVF Technology Protocol has been submitted to DBT (Govt. of India) and implemented all over the country

The presentation by Director, NDRI was followed by discussion and question and answer session. The Experts from NDRI, Dr. M.S. Chauhan, Director, Dr. Dheer Singh, Joint Director Research, Dr. Gopal Sankla, Principal Scientist (Agricultural Extension) answered participants' queries. Dr. P. Chandra Shekara, Director General, MANAGE gave concluding remarks and urged the international participants to make use of the expertise available with ICAR-NDRI by approaching through Indian embassies in their respective countries. Dr. Mahantesh Shirur presented the vote of thanks after the discussion.



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2. International Webinar Series on Technology Backstopping for Agri-Extension-Indian Experiences- ICAR-Indian Institute of Horticultural Research (IIHR)

To continue the contacts established through Feed The Future India Triangular Training (FTF ITT), MANAGE has started monthly International Webinar Series on Technology Backstopping for Agri-Extension: Indian Experiences from April, 2021. In this monthly webinar series, reputed research institutes in the field of agriculture will be invited to share about their institution activities, so that the officers from the partner countries of Africa and Asia can explore the options of collaborative linkages on research, extension and joint publications. On 31-August -2021, the activities of “**ICAR- Indian Institute of Horticultural Research- (IIHR)**” will be presented for international audience.

Indian Institute of Horticultural Research (IIHR) is a premier institute involved in basic, strategic, anticipatory and applied research on various aspects of fruits, vegetable, ornamental and medicinal crops and mushrooms. The institute was the first among horticultural research institutes to be

established in the country by Indian Council of Agricultural Research (ICAR) on September 5, 1967 at ICAR Headquarters, New Delhi. Shortly thereafter, the institute was shifted to Bangalore in Karnataka at Hessaraghatta, on February 1, 1968. Over 220 improved varieties and hybrids in fruit, vegetable, ornamental, medicinal, aromatic crops and mushrooms, have been identified at the institute level for commercial cultivation of which many have been released at state and national level. Encompassing various goals and objectives of achieving sustainable development of horticulture, providing livelihood security, economic growth and nutritional security which have been challenged time and again by various obvious factors, the IIHR, Bangalore has been carrying out research in fruits, vegetables, ornamentals, medicinal and aromatic plants and mushrooms.

The link to register for the webinar is given below. The registration is open for international participants only. I request you to share the information of MANAGE monthly International Webinar Series on Technology Backstopping for Agri-Extension: Indian Experiences among your colleagues.

Registration link: <https://rb.gy/ypsfjq>

MANAGE-International Webinar Series
Technology Backstopping for Agri-Extension: Indian Experiences
MANAGE, Hyderabad in collaboration with
ICAR-Indian Institute of Horticultural Research (IIHR),
Bangalore
DATE: 31ST AUGUST, 2021
Time: 12.00 - 13.00 Hrs. IST (+ 5:30 hrs. GMT)
Registration link: <https://rb.gy/ypsfjq>

Course director: Dr. Mahantesh Shirur, Deputy Director (Agril. Extn),
National Institute of Agricultural Extension Management (MANAGE), Hyderabad, India
Contact details: +91 9916220767, Email: pmu.manage@manage.gov.in



3. The signing ceremony (virtual) of the letter of Intent between MANAGE and MSU-Extension

MANAGE, Hyderabad and MSU-Extension, Michigan State, United States of America have signed a letter of Intent (LoI) to collaborate in the potential areas to maximize the impact of agricultural technologies and innovations at the field level through efficient agricultural extension and advisory services.

The LoI propose to collaborate on knowledge sharing and faculty exchange programs, training programs, workshops, Conferences, seminars, policy dialogues, research studies, projects, publication, partnerships for strengthening global extension between MANAGE and MSU Extension.



The signing ceremony of the LoI between MANAGE and MSU-Extension was held on 22nd July, 2021. The event was attended by Dr. P. Chandra Shekara, Director General, MANAGE, Dr. Karim M. Maredia, Director International Programs, College of Agriculture and Natural Resources, Michigan State University, East Lansing, U.S.A., Faculty of MANAGE and MSU-Extension.

During the signing Ceremony, vision areas of collaboration between MANAGE and MSU-Extension were discussed. Programs extending of policy, public private partnership, Gender mainstreaming FPO provision, climate smart agriculture, agri-startup promotion, allied extension, HRD farmer distress etc., were identified as broad areas for immediate planning and implementation the collaboration shall have an annual action plan, quarterly consultation (online) between both institutions and periodical publication.



4. Announcements of Online International Short Course on Innovations in Agricultural Extension Management

Michigan State University Extension, in collaboration with international programs in the MSU's College of Agriculture and Natural Resources and the National Institute of Agricultural Extension Management (MANAGE), is an autonomous organization under the Ministry of Agriculture and Farmers Welfare, Govt. of India. MANAGE mandated to improve agricultural extension system through capacity building, research, policy support, implementation of government schemes, education, consultancy, and knowledge dissemination in India. MSU-Extension partners with MANAGE to strengthen the agricultural extension system in the world. Jointly they will offer a five-day online course for international professionals working in diverse Agriculture Extension, advisory services and Management. The course focuses on the land-grant model of agricultural extension and will share best practices in the planning, design, implementation, management and evaluation of agricultural extension programs serving local farmers and communities in rural and urban areas from India and other developing countries. The flyer of this program can be accessed through the web-link given here.

<https://email.gov.in/service/home/~/?auth=co&loc=en&id=25367&part=4>

5. Sneak peek into the upcoming issue of the e-bulletin

- Success stories from Back at Work Plans
- International Webinar by ICAR-IIHR, Bangalore for technology backstopping to support International Trainees of MANAGE-Brief Report.
- Announcement of International programs by MANAGE

MESSAGE FROM DIRECTOR GENERAL

India is celebrating 75th year of its independence. The progress made by our country since independence is heartwarming. The agriculture sector in India is performing well despite the odds and challenges. MANAGE is initiating several activities to mark the 75th anniversary of our independence. The international webinar series initiated by MANAGE is received enthusiastically by the participants from Asia and Africa. With MSU, Michigan, MANAGE is organising an international training for the benefit of our international trainees. I invite all the FTF ITT and ITEC alumni to attend this International program which will be online.



Dr. P. Chandra Shekara
Director General



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FTF ITT and ITEC Training Program Overview

Total number of training programs completed under FTF ITT: **44/44**

Number of executives trained: **1144**

Male: Female: **709: 435**

Number of Countries covered: **20**

Total number of ITEC programs: **02**

Number of Executives trained: **45**

Name of the countries:

Asia: Afghanistan, Bangladesh, Cambodia, Lao PDR, Mongolia, Myanmar, Nepal, Sri Lanka and Vietnam

Africa: Botswana, Democratic Republic of Congo, Ghana, Kenya, Liberia, Malawi, Mozambique, Rwanda, Sudan, Tanzania and Uganda

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